205
Subproject
MOLETINA,
Project

Date Initiated: 20 January 1960

Date Expires: 30 June 1962

Funda-current year: \$4,000.00

pathogenic becteria. It provides consultation services on problems related In Vivo and Vitto characterization data vill This is a long research but information Purpose: Inis project supports research on determinants of virulence in Status: A continuing research. This is a long research but informations been developed to meet ad hoc requirements derived from other but related programs of TSD interest. to maintenance of virulence. be developed.

February 4, 1963

Gentlemen:

We enclose a statement of account for the period July 1 1961 through June 30, 1962 for the grants for the support of We apologize for not sending the we apologize for statement at the proper time after June 30.

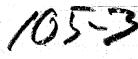
Our records indicate that the grant was extended through December 31, 1962, therefore, a statement for the final six month period is now due. The accounting records show some unliquidated commitments at the end of the grant period and we would prefer to withhold the final statement until all payments have been made so that we may report an actual cash balance and make a refund of the exact amount. If this is not acceptable for your purposes, please advise us and we will prepare a statement based on expenditures and outstanding commitments.

Director of Contracts

Professor

Fiscal Administration





Professor

Period: 7/1/61 - 6/30/62

Receipts:

Cash Balance,	Jaly 1, 1961 \$ 170.2	2	
Cash Received,	November 10, 1961 1,000.0	00	· · · · · · · · · · · · · · · · · · ·
	December 1, 1961 1,000.0		
	February 2, 1962 1,000.0		
Cash Received,	April 20, 1962 1,000.0	<u> </u>	

Total Cash Available

4,170.22

Disbursements:

General Supplies and Services Travel	\$ 702.07 104.62
Special Services and Honorariums Equipment	250.00 272.00
Subtotal	\$ 1,328.69
Indirect Costs	21.68
Total Disbursements	1,350.37
Cash Balance, June 30, 1962	\$ 2,819.85

Commitments:

Committed as of June 30, 1962

554.80

Balance Uncommitted and Unexpended

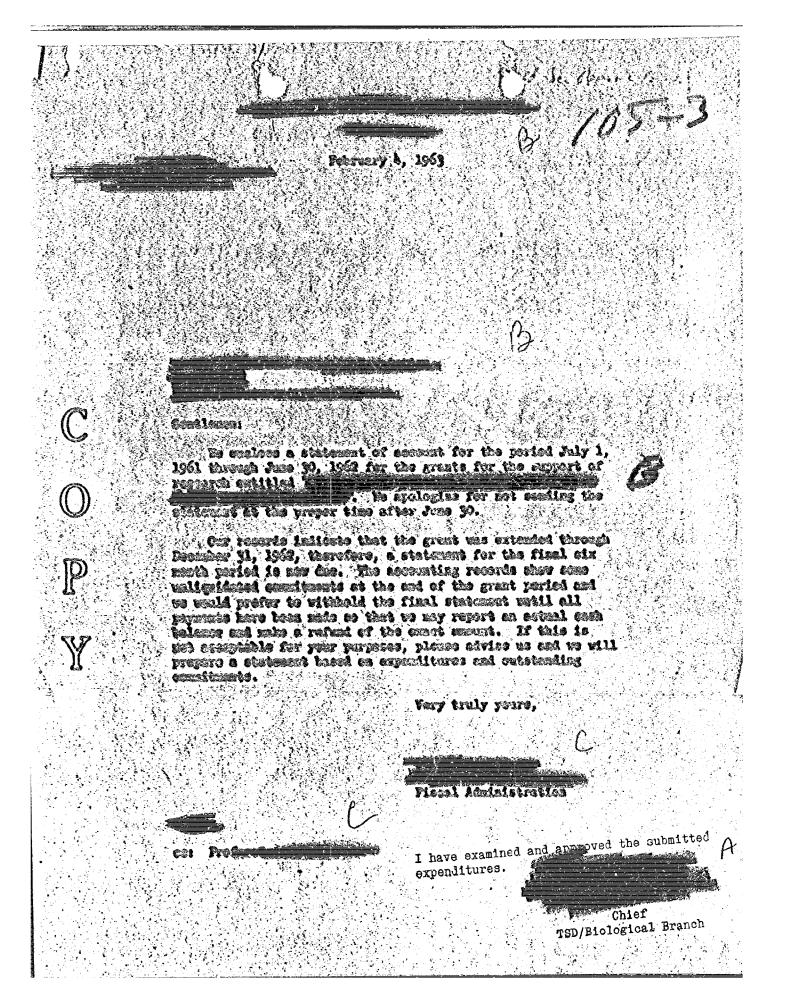
Certified Correct:



February 4, 1963

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Date:



Professor

Recei	ots:

Cach Received, April 20, 1962	1,000.00
Cash Received, December 1, 1961 Cash Received, February 2, 1962	1,000.00
Cash Balance, July 1, 1961 Cash Received, November 10, 1961	1,000.00

Disbursements:

Concret Supplies and Services	\$ [75.0]
Travel Special Services and Konorariums	104.62
Shouth services our waren	\$15.∞
Subtotal	\$_1,328.69
Indirect Costs	21.68
Total Disburscents	1,350.37
Cash Balance, June 30, 1962	\$ 2,819.85

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Cornitted as of June 30, 1962 Balance Uncommitted and Unexpended

Certified Correct:

Mscal Administration

February 4, 1963

expenditures.

I have examined and improved the submitted

Chief TSD/Biological Branch February 4, 1963

Dear Dear

With best regards,



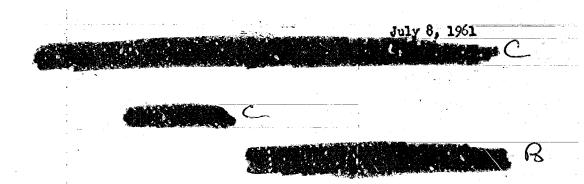
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Com Received, James 28, 1961	1,000.00		
(moh Recative), June 16, 1961	1,000.00		
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Soleries and Yoses	\$ 881.79		
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We provose to isolate from various animals (including man) by nasal swab organisms that are classified by usual bacteriological techniques as Staphylococcus aureus. Strains of S. aureus are important as causative agents of infection in man and, also, for production of a toxin that causes food poisoning in man. Strains of S. aureus also cause infection in other animals. We provose to study in vitro and in vivo characteristics of S. aureus strains from various animal species to determine if host adaptation occurs in the staphylococci as does occur for example, in the salmonellae. In vitro characterization will include test for various hemolysins, type of coagulase, lipase activity, DN ase activity, fibrinolysis, phage pattern and antibiotic sensitivity. In vivo characterization will include test for demoncorotic toxin, enterotoxin, and infectivity for mice.

1. RESEARCH PLAN:

A. Specific Aims

To character ze by both in vitro and in vivo studies Staphylococcus aureus of verious animal origins (including man) to determine if host adaptation of these microorganisms occurs. For example, are S. aureus isolated from human beings different from S. aureus isolated from dogs?

B. Method of Procedure

Isolation from nasal swabs (and infections where available - e.g., boils in mam, arthritis in chickens, mastitis in cattle, bladder infections in mink) of S. aureus using mannitol salt ager, Difco 110 agar, and tellurite glycine agar. After establishment of pure cultures determine kind of hemolysins, phage type, type of coagulase, lipase activity, fibrinolysis, DN ase, and antibiotic sensitivity. In vivo characterization will include test for dermonecrotic toxin, enterotoxin, and infectivity for mice. A long term approach would include serological studies of possible differences between strains using the Ouchterlony technique.

C. Significance of This Research

The biology of the staphylococci needs investigation to determine if there is adaptation to different animal species. Such terms as "human" staphylococci, and "bovine" staphylococci are used without a real basis for their use except to mean the source of the particular culture.

D. Facilities Available

Laboratories and animal rooms are available. No unusual equipment is required and the usual bacteriological equipment is available.

The purpose of this laboratory is to make a continuing survey of rables in viid animals by trapping. Through the cooperation of Public we obtain nasal swabs from the animals. This then gives a source of wild animals that have not been in contact with man.

2. PREVIOUS WORK DONE ON THIS PROJECT:

We have used most of the techniques listed in Paragraph B (Research Plan) in studies on the Pathogenesis of staphylococci. We have also studied the in vitro characteristics of staphylococci causing acute bovine mastitis and chronic bovine mastitis. We have started to isolate staphylococci from nasal swabs of various animals. During the past year we have exemined nasal swabs from deer, foxes, skunks, and oppossums as well as from laboratory animals such as rabbits and mice. We are currently doing laboratory in vitro tests on the staphylococcal cultures that have been isolated.

3. PERSONAL PUBLICATIONS:

3. PERSONAL PUBLICATIONS (continued)



4. RESULTS OBTAINED BY OTHERS:

Many workers have characterized staphylococci isolated from masal swabs from human beings (filek, S. D. "Staphylococcus pyogenes and Its Relation to Disease" 1959, E. and S. Livingstone Ltd., Edinburgh and London), and from milk from dairy cattle (Reid W. and Wilson, J. B., Am. J. Vet. Res. 20: 825 (1959). There has also been extensive work on characterization of staphylococci from infections in human beings, but limited work has been done on characterization of staphylococci from infections in other smimals (e.g. Smith, H. W., J. Path. and Bacteriol. 67: 73 (1954). Rountres (J. of Path. and Bacteriol. 72: 319 (1956) has done Phage typing of staphylococci from nasal swabs from various laboratory and domestic animals. Thus it would seem appropriate in a laboratory where extensive work on staphylococci per se is being done that a detailed investigation be carried out of the characteristics isolated from various animal species.

July 8, 1961

\$1,000

June 30, 1962

The Regents of the

Research Assis	tant - Graduate Student us some Student Labor	\$2, L∞	<u> </u>
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300 WORD_PROJECT_SUMMARY

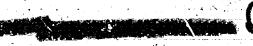
Date: March 3, 1960

Title of Project:

Name of Principal Investigator:

MINA C.

Institution to Which Principal Investigator is Attached:



SUMMARY OF PROPOSED PROJECT: (300 words or less—See Sec. XII, Par. 1., Statement of Policy)

We propose to isolate from various animals (including ran) by masal swab organisms that are classified by usual bacteriological techniques as Staphylococcus aureus. Strains of S. aureus are important as causative agents of infection in man and, also, for production of a toxin that causes food poisoning in man. Strains of S. aureus also cause infection in other animals. We propose to study in vitro and in vivo characteristics of S. aureus atrains from various animal species to determine if host adaptation occurs in the staphylococci as does occur for example, in the salmonellae. In vitro characterization will include test for various hemolysins, type of cosquiase, lipase activity, IN ase activity, fibrinolysis, phage pattern and antibiotic sensitivity. In vivo characterization will include test for demonecrotic toxin, enterotoxin, and infectivity for mice.

) 105-gu

(3)

APPLICATION FOR A GRANT

the state of the s	Date Patent 31 2700
Name of Principal Investigator:	C
Amount Requested: \$4,000	for a period of twelve months, from
July 1, 1960	through
Title of Project:	
Name and Title of Principal Investigator:	
Address of Principal Investigator:	
Name of Institution:	
Name, Title and Address of Financial	
Officer to Whom Check Should be Mailed	
As well as Exact Payee to Whom	В
Check Should be Endorsed:	
AGREEMENT: It is understood by the appl	icant and the institution to which he is attached that
are to be used only for the purposes	agree that funds granted as a result of this request set forth in this application, and (2) they agree to
abide by the policy of the "STATEMENT OF POLICY."	as set forth in the
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Signature of Principal Investigator

Signature of Official Authorized to sign for Institution

Title of Authorized Official

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BUDGET SHEET

NOTE: Under column entitled "OTHER" indicate, if any, funds anticipated from other sources to be applied to this project.

	BUDG	ET	
	Requested from Foundation	Other	
PERSONNEL: (Professional and technical assistants, including duties, Indicate names of professional personnel if already selected)			
Research Assistant (Graduate student to be selected.)	\$2 , 1/ ₁ 8	• • • • • • • • • • • • • • • • • • •	
PERMANENT EQUIPMENT: (Itemize)			
COMMUNICATION TO COMMUNICATION OF THE COMMUNICATION		•	
CONSUMABLE SUPPLIES: (Itemize) Culture Media\$292 Animals200			
Arimal Feed 100 Glassware200 Chemicals	860		## Test 1 1 1 1 1 1 1 1 1
TRAVEL: (State Purpose) To attend Soc. of	500		C
OTHER EXPENSES: (Itemize)			Commence of the second control of the second
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OVERHEAD: (See "STATEMENT OF POLICY," Sec. VIII, Par. 7)			-
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Total	\$ù,000		OFFERSON SAMES AND SPECIFICATION OF

Estimate of funds required to complete project if one year is not sufficient to bring to completion:

\$4,000

B

Note: The principal investigator has \$20,000 per year from the and other sources to study virulence factors in staphylococcal infections. None of this money is available for work outlined in the present proposal.

RESEARCH-PROPOSAL

This Department has had under investigation studies
on virulent and non-virulent Staphylococci. It is expected
that by investigation of biochemical properties and metabolic
functioning of the major genetic variants, indicators would be identified to mark the virulent Staphylococci. The project, therefore,
has genetic, metabolic, and nutritional components. The varieties
of toxins produced by the various Staphylococci as well as the
intensity will be determined as sub-areas in this study. It is
expected that the eventual goal of this investigation will be
biochemical tests which will identify the organisms of interest.

0 105-7

PROPOSED BUDGET

Pay of personnel \$3,200.00

Travel 200.00

Supplies 600.00

Total \$4,000.00



DRAFT 22 December 1959

MEMORANDUM FOR: THE RECORD

SUBJECT -

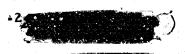
: MKULTRA, Subproject 105

at the on the determinants of virulence in Staphylococci. This study is an important fundamental investigation which can lead to an increased understanding of the process of pathogenesis.

- principal investigator.
- 3. The cost of this program for the first year is \$4,000.00.

 To this sum must be added \$160.00 representing a four per cent service charge to the making the total amount for one year \$4,160.00. The will function as cut out and cover for this grant. The cover title of the project is
- 4. Total cost of the project for a period of one year will not exceed \$4,160.00. Charges should be made against Allotment No. 0525-1009-4902.
 - 5. The has requested the University to submit





•

a summary accounting of monies received and to return any
unexpended grant funds at the end of the project year.
6. Title to any permanent equipment purchased by funds
granted the University shall be retained by them in lieu of higher
overhead_rates.
7. It was mutually agreed that documentation and accounting
for travel expenses which are reimbursable by the University shall
conform with the accepted practices of that institution.
8. The requirement for a six months' informal accounting on
the part of the principal investigator is waived.
9. Dr. is cleared through SECRET and is aware of the
true purpose of the program.
TSS/Chemical Division
APPROVED FOR OBLIGATION
OF FUNDS:
APPROVED:
Research Director
Chief Control Chief
Date: 1/20/60 TSS/Chemical Division
Attachment:
Proposed budget-and proposal
Distribution:
Original only
VARANDA VIII.

29 December 1959

MEMOR	ANDUM PA	B. CO	MPTROLLER

ATTENTION

: Finance Division

SUBJECT

MKULTRA, Subproject 105

Under the authority granted in the memorandum dated

13 April 1953 from the DCI to the DD/A, and the extension of

this authority in subsequent momorands, Subproject 103 bas

been approved and \$4,160.00 of the over-all MKULTRA project

funds has been obligated to cover the subproject expenses. This

obligation of funds should be charged to Allotment 0525-1009-4902.

Chief TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Reseasch Director



COLUM

Distribution:

Orig & 2 - Addresses

1 - TSS/OC

1 - TSS/FASB

2 - TSS/CD

TSS/CD/ (29Dec '59)





INVOICE

For Services

\$4,160.00





CERTIFICATIONS

(i) It is hereby certified that this is Invoice No. I applying to Subproject 105 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/CB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Chemical Branch

Dato:

(2) It is hereby certified that this invoice applies to MKULTRA
Subproject 105, which was duly approved, and that the project is being
carried out in accordance with the memorandum dated 13 April 1953,
from the DCI to the DD/A, and the extension of this authority in
subsequent memoranda.

Research Director

Date:



25 April 1960

MEM(DRANDU	M FOR:	CHIEF.	FINANC	E DIV	/ISI	ON	
VIA	:	1 2 - 7	rsD/Bud	et Offic	er			

SUBJECT

I-MKULTRA, Subproject 105, Invoice #1
Allotment 0525-1009-4902

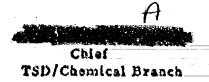
1. Invoice No. 1 covering the above subproject in attached.

Payment should be made as follows:

Cashier's check in the amount of \$4,000,00 draws on

Cashler's check in the amount of \$160.00, drawn on payable to

- 2. Please forward the checks to Chief, TSD/Chemical Branch, through TSD/Budget Officer, no later than 9 May 1960.
- 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.



Attachments:	 	
Invoice & Certific		
Distribution:	sa saa qaa ee aaa	

1 - TSD/FASS

Orig & 2 - Addressee

2 - TSD/CB

TSD/CB/

4

6 May 1960

Dear

Please give these the same treatment as the others,

Thank you,

2.105-11

6 May 1960



Gentlemen:

We are pleased to be able to transmit to you the following funds:

Official Check G41068 drawn on for \$4,000.00 dated May 2, 1960.

Cashier's Check No. A241099 drawn on the control of the control of

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,



			•	No.	25 April 1960	
	MEMORA	ndum for: (CHIEF, FINA	NCE DIVISIO)XK	
	VIA	inger State of the state of th	SD/Budget Of	licer		
	SUBJECT		KULTRA, Si			
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29 December 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Masace Division

SUBJECT

1 MKULTRA, Subproject 103

Under the authority granted in the memorandum dated

13 April 1953 from the DCI to the DD/A, and the extension of

title authority in subsequent memoranda, Subproject 105 has

been approved and \$4,160.00 of the over-all MKULTRA project

funds has been obligated to cover the subproject expenses. This

obligation of funds should be charged to Allotment 0525-1009-4902.

Chief
TS5/Chemical Division

APPROVED FOR	OBLI	GAT	ľ.	ON
OF FUNDS.			٠.	

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Research Director

Date: 201A

Distribution:

Orlg & 2 - Addressee

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TSS/CD/ (29Dec '59)





No.	1438

Cost Account 15.25- 1028- 4902

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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24 May 1961

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: Finance Division

SUBJECT :

: MOULTRA, Subproject 105

Additional Authorization #2

Under the authority granted in the memorandum dated

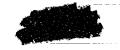
13 April 1953 from the DCI to the DD/A, and the extension of
this authority in subsequent memoranda, Subproject 105 has
been approved and \$4,160.00 of the over-all MAULTRA project
funds has been obligated to cover the subproject expenses. This
obligation of funds should be charged to Allotment 1125-1390-3902.

Chief TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:



Research Director			
Date:	 •		
Distribution:		<u> </u>	
Original & 2 - Addresses			
1 - TSD/FASS 2 - TSD/RB			
2 - TSD/RB			





DRAFT/4000 A

MEMORANDUM FOR: The Record

SUBJECT

: MKULTRA, Subproject 105, Renewal:

- 1. The purpose of subproject 105 is to support investigations at

 the on the

 determinants of virulence in Staphylococci. This study is an important

 fundamental investigation which can lead to an increased understanding of

 the process of pathogenesis.
- principal investigator.
- 3. The cost of this program for the second year is \$4,000.00. To this sum must be added \$160.00 representing a four per cent service charge to the making the total amount for one per service.

 year \$4,160.00. will function as cut out and cover for this grant. The cover title of the project is
- 4. Total cost of the project for a period of one year will not exceed \$4,160.00. Charges should be made against Allotment No. 1125-1390-3902.
- 5. The has requested the University to submit a summary accounting of monies received and to return any unexpended grant funds at the end of the project year.



- 6. Title to any permanent equipment purchased by funds granted the University shall be retained by them in lieu of higher overhead rates.
- 7. It was mutually agreed that documentation and accounting for travel expenses which are reimbursable by the University shall conform with the accepted practices of that institution.
- 8. The requirement for a six months' informal accounting on the part of the principal investigator is waived.
- 9. Dr. is cleared through SECRET and is aware of the true C purpose of the program.

TSD/Research Branch

		R		H
Researc	h Director		Chief TSD/Research Branch	
Date:	(1) 1361		- 100/Nesesten Branch	
ttachment;				
Proposed budg	et_and_prope	osal		





RESEARCH PROPOSAL

on virulent and non-virulent Staphylococci. It is expected
that by investigation of viochemical properties and metabolic
functioning of the major genetic variants, indicators would be
identified to mark the virulent Staphylococci. The project,
therefore, has genetic, metabolic, and nutritional components.

The varieties of toxins produced by the various Staphylococci
as well as the intensity will be determined as sub-areas in this
study. It is expected that the eventual goal of this investigation
will be biochemical tests which will identify the organisms
of interest.

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PROPOSED BUDGET

Pay of personnel \$3,200.00

Travel 200.00

Supplies 600.00

Total \$4,000.00

D

7 July 1961

MEMORANDUM	FOR: Chief,	Finance	Division
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VIA

1 TSD/Budget Officer

SUBJECT.

1 MKULTRA, Subproject 105, Invoice No. 2 Allotment 1125-1390-3902

1. Invoice No. 2 covering the above subproject is attached.

Payment should be made as follows:

Cashier's check in the amount of \$4,000.00 drawn on a

Cashler's check in the amount of \$160.00 drawn on a payable to

2. Please forward the checks to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 19 July 1961.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Chief TSD/Research Branch

Attachments: Invoice & Certifications

Distribution:

Orig & 2 - Addressee

1 - TSD/FASS

2 - TSD/RB

TSD/RB:

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17 August 1961



Gentlement

We are pleased to be able to transmit to you the following funds:

Treasurer's Check No. 090778 drawn on the for \$4,000.00 dated July 18, 1961.

Cashley! Check No. A275779 drawn on for \$160.00 dated July 18, 1961.

These funds represent a constitution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Attachments (2)

7 July 1961

MEMORANDUM FOR	Chlef,	Finance	Division
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YIA

1_TSD/Budget Officer

SUBJECT

MKULTRA, Subproject 105, Invoice No. 2
Allotment 1125-1390-3902

1. Invoice No. 2 covering the above subproject is attached.

Payment should be made as follows:

Cashler's check in the amount of \$4,000,00 drawn on a payable to

Cashler's check in the amount of \$160,00 drawn on a

- 2. Please forward the checks to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 19 July 1961.
- 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Chief
TSD/Research Branch

Attachmente:	CERTIFY THAT PURDE ANARASIA 1845
Invoice & Certifications	OBLIGATION ICUITALIES IO. 3577
Distribution: Orlg & 2 - Addresses	CHECK 4907/ TO AM TUNT DE 54/12
1 - TSD/FASS	RECEIVED.
2 - TSD/RB	
TSD/RB	HEDK#4.275727 TO ANGUNT DE \$160.00
- K	EDAVES



24 May 1961

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Pinance Division

SURJECT

| MOULTRA, Subproject 105

Under the authority granted in the memorandum dated

13 April 1953 from the DCI to the DD/A, and the extension of
this authority in subsequent memoranda, Subproject 105 has
been approved and \$4,160.00 of the over-all MCULTRA project
funds has been obligated to cover the subproject expenses. This
obligation of funds should be charged to Allotment 1125-1390-3902.

Chief:
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:



ORUGATION REFERENCE No. 2319
CHARGE TO ALLOTMOST No. 1195-1380-3912

Original signal by

Research Director

Date: 30 1961

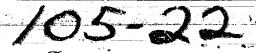
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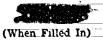
Original & 2 - Addressee

1 - TSD/FASS

2 - TSD/RB







Object Class __

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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sc	HEDUI	LE OF GRANT PAYM	IENTS August 8, 1960
3.	Dr.	July 5, 1960	July 1960 to June 1961
	Due Due	October_1, 1960 January 1, 1961	1,000.00
	Due	April 1, 1961	1,000.00
			Total grant, 4, 000, 00